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Refrigerating device for storing and presenting ice cream

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Claims

1. Refrigerating device for storing and presenting ice cream,
with a heat-insulating housing, where the housing displays
15 a housing opening and a storage device with a receiving
compartment for ice cream, where the housing essentially
surrounds the receiving compartment completely and the
storage device is mounted in the housing in rotating fash-
ion, and where a heat exchanger for generating cold air is
20 assigned to the housing and can be connected to a refrig-
erating unit located inside or outside the housing, such
that the ice cream in the receiving compartment can be re-
frigerated by the cold air generated, c h a r a c t e r -
i z e d i n t h a t the storage device is designed as
25 an insert that can be fitted and/or removed through the
housing opening.
2. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t the housing encompasses at
30 least one door for sealing off a housing opening designed
as an ice cream removal opening, and in that the insert is
dimensioned in such a way that it can be passed through
the open door.
- 35 3. Refrigerating device according to Claim 1, c h a r a c -

t e r i z e d i n t h a t t h e i n s e r t i s d i m e n s i o n e d i n s u c h a w a y t h a t i t c a n b e p a s s e d t h r o u g h a h o u s i n g o p e n i n g d e s i g n e d a s a c o v e r .

- 5 4. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t m e a n s a r e p r o v i d e d f o r i n t e r -
r u p t i n g t h e r o t a t i o n o f t h e i n s e r t , a n d i n t h a t t h e m e a n s
c a n b e s w i t c h e d b y o p e n i n g t h e a t l e a s t o n e d o o r a s s i g n e d
t o t h e i c e c r e a m r e m o v a l o p e n i n g , i n t e r r u p t i n g t h e r o t a -
10 t i o n o f t h e i n s e r t
5. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t t h e i c e c r e a m r e c e i v i n g c o m -
p a r t m e n t p r o t r u d e s l a t e r a l l y f r o m t h e h o u s i n g , a t l e a s t i n
15 t h e a r e a o f i t s u p p e r e n d .
6. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t t h e i n s e r t p r o t r u d e s f r o m t h e
h o u s i n g w a l l l a t e r a l l y t o i t s a x i s o f r o t a t i o n o v e r p a r t
20 o f i t s c i r c u m f e r e n c e .
7. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t t h e i n s e r t d i s p l a y s a x i a l l y
o r i e n t e d r o t a t i n g a r e a s , a b o u t w h i c h t h e i n s e r t c a n b e r o -
25 t a t e d , f o r m i n g a n a x i a l a x i s o f r o t a t i o n , a n d i n t h a t t h e
i n s e r t i s m o u n t e d , a t l e a s t a t o n e e n d o f t h e a x i s o f r o -
t a t i o n , i n a m o v a b l e h o l d i n g d e v i c e .
8. Refrigerating device according to Claim 7, c h a r a c -
30 t e r i z e d i n t h a t a d r i v e u n i t i s l o c a t e d i n e x -
t e n s i o n o f t h e a x i s o f r o t a t i o n o f t h e i n s e r t .
9. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t t h e i n s e r t d i s p l a y s a t l e a s t
35 o n e s h a f t e n d t h a t c a n b e c o n n e c t e d i n d e t a c h a b l e a n d
p o s i t i v e f a s h i o n t o a c o r r e s p o n d i n g t r a n s m i s s i o n e l e m e n t

driven by a drive motor, and in that manual actuating means are provided for moving the transmission element, or a bearing located opposite it, for changing the connection status of the transmission element to the shaft end of the insert, and in that the actuating means can be operated from outside the housing or after removing a cover plate.

10. Refrigerating device according to Claim 9, c h a r a c -
t e r i z e d i n t h a t the connection between the
shaft and the transmission element can be disconnected by
moving the transmission element.
11. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t the heat exchanger surrounds
the insert over part of its circumference in the housing.
12. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t the heat exchanger extends at
least partly over the height of the ice cream receiving
compartment and ends at least approximately level with an
upper border of the ice cream receiving compartment, or
displays at least roughly half the height of the ice cream
receiving compartment of the insert.
13. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t a selector switch is provided
for the types of ice cream located in different segments
of the insert, the operation of which permits positioning
of the insert in such a way that the selected type of ice
cream can be removed through the removal opening, after
opening the at least one door, where appropriate.
14. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t at least one fan circulates
at least a partial stream of the cooling air essentially
horizontally around at least part of the circumference of

the insert or radially in the direction of the insert.

15. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t, in the area of the ice cream
5 removal opening, at least a partial stream of the cooling
air is directed essentially horizontally onto the at least
one door.

16. Refrigerating device according to Claim 1, c h a r a c -
10 t e r i z e d i n t h a t the insert displays a shaft
or a shaft projection, about which the insert can be ro-
tated, and at least one plate as the lower border of the
ice cream receiving compartment, and in that at least two
15 segment walls are located on the at least one plate to di-
vide the ice cream receiving compartment into adjacent
segments.

17. Refrigerating device according to Claim 16, c h a r a c -
t e r i z e d i n t h a t the segment walls can be fas-
20 tened on the insert in detachable fashion.

18. Refrigerating device according to Claim 1, c h a r a c -
t e r i z e d i n t h a t the insert displays a shaft
or a shaft end, about which the insert can be rotated, and
25 optionally displays lateral delimiting walls, and in that
the insert displays at least two segmental inserts, each
of which displays two lateral dividing walls arranged at
an angle to each other, and at least one plate segment at
the bottom relative to the axis of rotation, and in that
30 the segmental inserts can be fixed in position on the in-
sert in detachable fashion.